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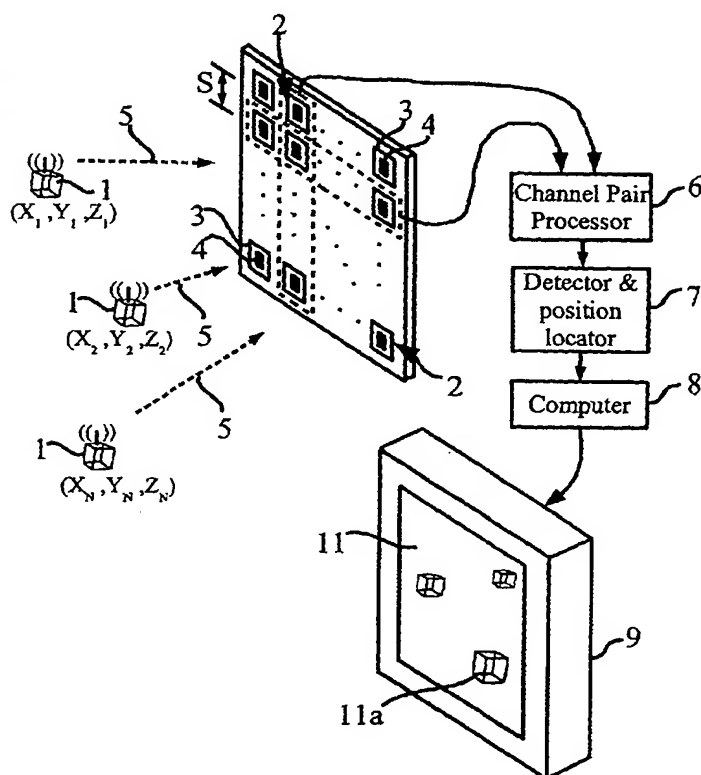
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- (71) Applicant (for all designated States except US): **XYZ INTERACTIVE TECHNOLOGIES INC. [CA/CA]; 989 LILLIAN STREET, TORONTO, Ontario M2M 3E8 (CA).**
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **LOHBIHLER, Andrew [CA/CA]; 989 LILLIAN STREET, TORONTO, Ontario M2M 3E8 (CA).**

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR POSITION SENSING



(57) Abstract: Embodiments of the present invention include one or more wireless transmitting devices and an array of receiver units for receiving wireless communications from the transmitting devices. The transmitter devices and receiver units can be arranged in one, two or three dimensional configurations. Signals are transmitted from the devices for identification and accurate location determination. Spread spectrum techniques can be used, such as DSSS, FHSS, THSS, and pseudo-noise (PN) coding schemes, or combinations thereof. The transmitting devices can generate one or a plurality of data signals that are orthogonal-code modulated, to be decoded by the receiver units and a processor associated therewith. A plurality of transmitter signals can be received, identified, located, and data demodulated substantially simultaneously using embodiments of the invention. The combined use of array processing methods and diversity schemes can be used to reduce the effects of signal multi-path and occlusion.

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